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### Bacteria, Fungi and Viruses, Sizes and Significance (Sizes in Micrometers - MM)

**Note:** Most are above 0.1M in size. None are below 0.01 in size.

Organism	Microbial Group	Rod Length $\mu\text{m}$	Rod or Coccus Diameter $\mu\text{m}$	Source	Significance
<i>Absidia corymbifera</i>	Fungi		3.8	Environmental	Zygomycosis
<i>Acetobacter Melenogenus</i>	Bacteria	1.0-2.0	0.4-0.8		Strong beer/vinegar bacterium.
<i>Acinetobacter</i>	Bacteria		1.3	Environmental	Opportunistic Infections
<i>Acromonium spp.</i>	Fungi		2.5	Environmental	Extrinsic Allergic Avelons
<i>Actinomyces israelii</i>	Bacteria		1.0	Humans	Actinomycosis
<i>Adenovirus</i>	Virus		0.08	Humans	Colds
<i>Alcaligenes Viscolactis</i>	Bacteria	0.8-2.8	0.6-1.0		Causes ropiness in milk.
<i>Alkaligenes</i>	Bacteria		0.75	Humans	Opportunistic Infections
<i>Alternaria alternata</i>	Fungi		14.4	Environmental	Mycotoxicosis
<i>Arenavirus</i>	Virus		0.18	Rodents	Hemorrhagic fever
<i>Aspergillus spp.</i>	Fungi		3.5	Environmental	Aspergillosis, Volatile Organic Compound
<i>Aureobasidium pullulans</i>	Fungi		5	Environmental	Chromomycosis
<i>Bacillus anthracis</i>	Bacteria	3.0-10.0	1.0-1.3 (1.1 average)	Environmental	Causes anthrax in mammals
<i>Bacillus Stearothermophilus</i>	Bacteria	2.0-5.0	0.8-1.0		Biological Indicator for steam sterilization
<i>Bacillus subtilis</i>	Bacteria	2.0-3.0	0.7-0.8		Biological Indicator for ethylene oxide sterilization
<i>Blastomyces dermatitidis</i>	Fungi		14	Environmental	Blastomycosis
<i>Bordetella pertussis</i>	Bacteria		0.25	Humans	Whooping cough
<i>Botrytis cinerea</i>	Fungi		7	Environmental	Extrinsic Allergic Avelons
<i>Cardiobacterium</i>	Bacteria		0.63	Humans	Opportunistic Infections
<i>Chaetomium globosum</i>	Fungi		5.5	Environmental	Chromomycosis, Volatile Organic Compound
<i>Chlamydia psittaci</i>	Bacteria		0.3	Birds	Psittacosis
<i>Chlamydia pneumoniae</i>	Virus		0.3	Humans	Pneumonia
<i>Cladosporium spp.</i>	Fungi		9	Environmental	Chromoblastomycosis
<i>Clostridium botulinum (B)</i>	Bacteria	3.0-8.0	0.5-0.8		Produces exotoxin causes botulism
<i>Clostridium Perfringens</i>	Bacteria	4.0-8.0	1.0-1.5		Produces toxin causing food poisoning
<i>Clostridium tetani</i>	Bacteria	4.0-8.0	0.4-0.6		Produces exotoxin causing tetanus
<i>Coccidioides immitis</i>	Fungi		4	Environmental	Coccidioidomycosis
<i>Coronavirus</i>	Virus		0.11	Humans	Colds
<i>Corynebacteria diphtheria</i>	Bacteria		1.0	Humans	Diphtheria
<i>Coxiella burnetii</i>	Bacteria		0.5	Cattle, sheep	Q fever
<i>Coxsackievirus</i>	Virus		0.027	Humans	Colds
<i>Cryptococcus neoformans</i>	Fungi		5.5	Environmental	Cryptococcosis
<i>Diplococcus Pneumoniae</i>	Bacteria		0.5-1.25		Causes lobar pneumonia
<i>Echovirus</i>	Virus		0.028	Humans	Colds
<i>Emergella nidulans</i>	Fungi		3.3	Environmental	Mycotoxicosis, Volatile Organic Compound
<i>Epicothium nigrum</i>	Fungi		20	Environmental	Extrinsic Allergic Avelons
<i>Erwinia aroideae</i>	Bacteria	2.0-3.0	0.5		Causes soft rot in vegetables.
<i>Escherichia Coli (E Coli)</i>	Bacteria	1.0-3.0	0.5		Indicator of fecal contamination in water.
<i>Eurotium spp.</i>	Fungi		5.8	Environmental	Extrinsic Allergic Avelons
<i>Exophiala jeanselmei</i>	Fungi		2	Environmental	Chromomycosis
<i>Francisella tularensis</i>	Bacteria		0.2	Wild animals	Tularemia
<i>Geomyces pannorum</i>	Fungi		3	Environmental	Extrinsic Allergic Avelons
<i>Haemophilus influenzae</i>	Bacteria	0.5-2.0	0.2-0.3		Causes influenza and acute respiratory infections
<i>Haemophilus influenzae</i>	Bacteria		0.43	Humans	Meningitis, pneumonia
<i>Haemophilus parainfluenzae</i>	Bacteria		1	Humans	Opportunistic infections
<i>Hantavirus</i>	Virus		0.07	Rodents	Hantavirus



Trichoderma spp.	Fungi		4.1	Environmental	Mycotoxycosis, Volatile Organic Compound
Ulocladium spp.	Fungi		15	Environmental	Extrinsic Allergic Avelons
Vancella-zoster	Virus		0.3	Humans	Chickenpox
Wallemia sabi	Fungi		3	Environmental	Extrinsic Allergic Avelons
Yersinia pastis	Virus		0.75	Humans	Pneumonic plagua

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